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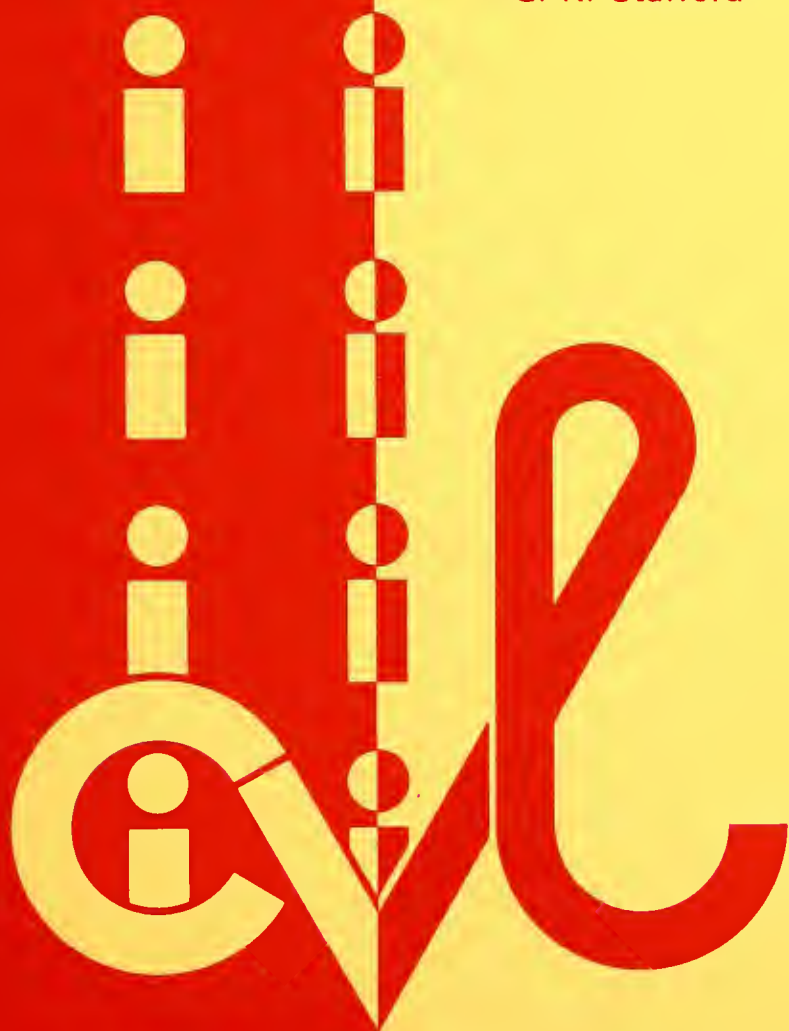
JOINT HIGHWAY RESEARCH PROJECT

JHRP-77-23

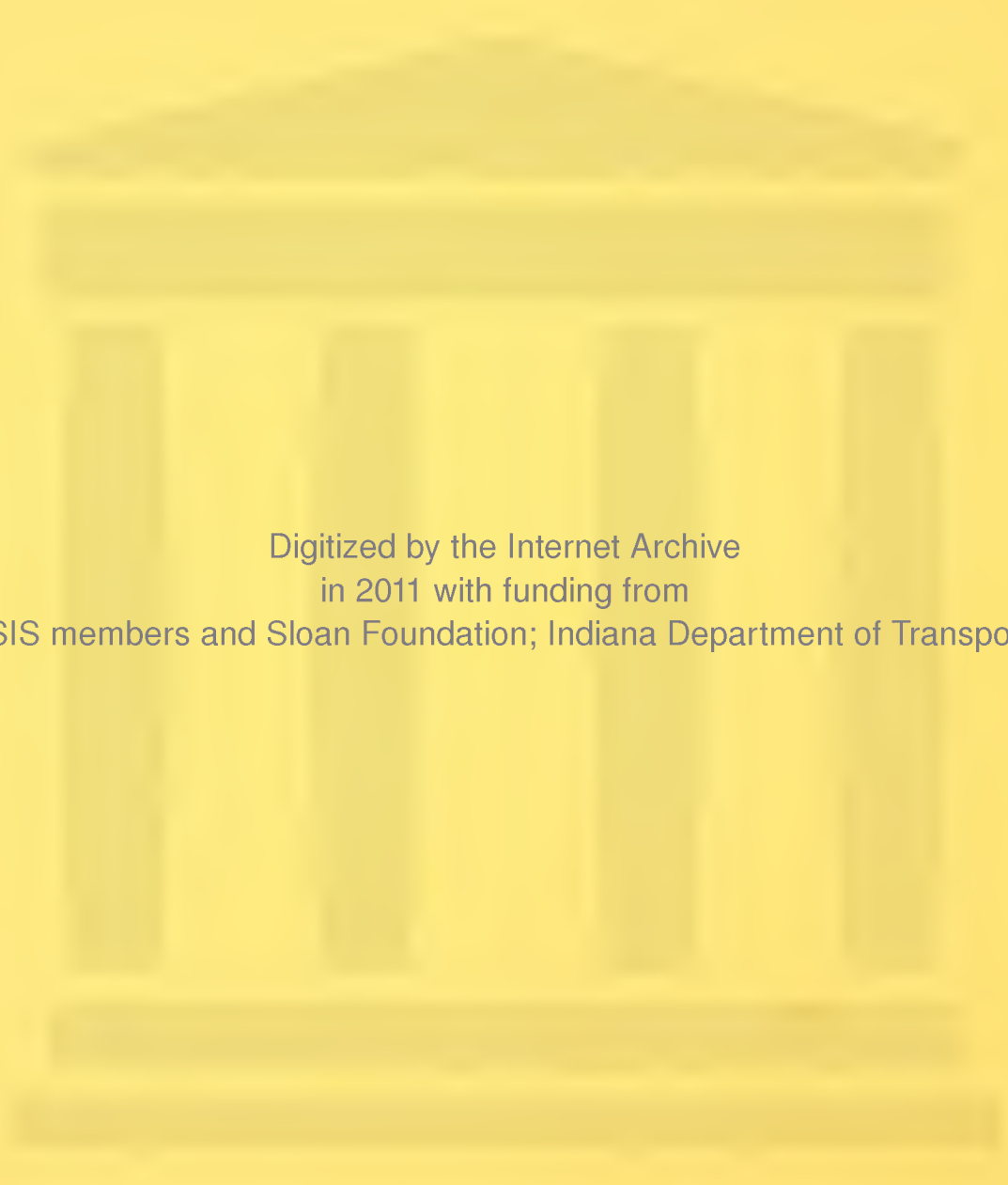
TRAFFIC SPEED REPORT NO. 103

J. R. Mekemson

G. K. Stafford



PURDUE UNIVERSITY
INDIANA STATE HIGHWAY COMMISSION



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TRAFFIC SPEED REPORT NO. 103

TO: J. F. McLaughlin, Director
Joint Highway Research Project

December 21, 1977

File: 8-3-3

FROM: H. L. Michael, Associate Director
Joint Highway Research Project

Project: C-36-10C

The attached Progress Report No. 103 on Traffic Speeds is the report of the October-December 1977 quarterly study of free-flowing automobile and truck speeds on rural, tangent, level sections of Interstate, 4-lane and 2-lane and on urban interstate highways in Indiana. The report has been prepared by Mr. J. R. Mekemson, a Graduate Instructor in Research on our staff, under the direction of Professor H. L. Michael. The data collection was directed by Mr. G. K. Stafford of our staff.

The results indicate that the average speed of passenger cars and trucks has increased since the July-September 1977 study. The average speeds of passenger cars and of heavy trucks were found to be 1.5 mph and 0.8 mph greater, respectively, than for the previous period. The percentage of all vehicles travelling more than 5 mph above the speed limit increased to 36 percent while 11 percent were more than 10 mph above the 55 mph limit.

Copies of the report will be sent to the Federal Highway Administration and the ISHC for review, comment and acceptance as partial fulfillment of the objectives of this HPR Part I Study. Copies of the report are requested for release to the Indiana State Police and the Indiana Office of Traffic Safety as a normal procedure for these reports.

Respectfully submitted,



Harold L. Michael
Associate Director

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Interim Report
TRAFFIC SPEED REPORT NO. 103

by

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and

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Joint Highway Research Project

Project No.: C-36-10C

File No.: 8-3-3

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Conducted by

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Purdue University

in cooperation with the

Indiana State Highway Commission

and the

U.S. Department of Transportation
Federal Highway Administration

The opinions, findings and conclusions expressed in this publication are those of the authors and not necessarily those of the Federal Highway Administration.

Purdue University
West Lafayette, Indiana
December 21, 1977

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| 15. Supplementary Notes Conducted in cooperation with the U.S. Department of Transportation, Federal Highway Administration. Planning Study titled "Speed Trends for Indiana Highways". | | | |
| 16. Abstract <p>This report is another in the continuing study of speeds of vehicles on Indiana highways. Observations of spot speeds were taken on interstate, four-lane and two-lane highways throughout the state during the October-December 1977 quarter.</p> <p>Analysis of the speeds showed the overall average speed for all vehicles was 58.7 mph. The overall average speed for passenger cars and all trucks was 59.3 mph and 58.1 mph respectively. These overall speeds are an increase over the results of the July-September 1977 quarter (Speed Report No. 102) of 1.2 mph for all vehicles, 1.5 mph for all passenger cars and 0.8 mph for heavy trucks.</p> | | | |
| 17. Key Words Speeds, Highway Speeds, Rural Highway Speeds, Speed Trends, 55 mph Speed Effect | | 18. Distribution Statement No restrictions. This document is available to the public through the National Technical Information Service, Springfield, Virginia 22161 | |
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TRAFFIC SPEED REPORT NO. 103

This report is an analysis of spot speed observations made during October-December 1977. All observations were made of free-flowing vehicles on level, tangent sections of rural and urban highways during daylight and under favorable conditions.

The speed monitoring stations for each highway classification are divided into two groups. The first group is identified as "control stations" and were at the same locations on selected Federal and State highways as used in previous annual studies. These "control stations" are used in each quarterly study. The second group is selected at random for each quarterly study.

Fourteen speed monitoring stations were used for the study reported herein. Seven of these stations were the control stations noted above. The other seven stations were selected at random.

Stations were classified as two-lane, four-lane, rural interstate, or urban interstate highways. A representative sample of spot speeds was obtained at each station in each classification. The site locations were as follows: (See Figure A).

Rural Interstate Highways

| | |
|---------------------|--|
| *RI-6 (I-65) | 7.5 miles north of junction of SR 160 |
| *RI-21 (I-69) | 1.6 miles south of junction of SR 18 |
| RI-22 (I-69) | 7.3 miles north of SR3 interchange. |
| **RI-26 (I-80 & 90) | 3.75 miles east of LaGrange-Elkhart Co. line @ mile post marker 112 |

Four-Lane Highways

| | |
|------------------|---|
| *4L-17 (U.S. 52) | Just east of Co. Rd. 475W, near Klondike |
| *4L-32 (U.S. 30) | 2.9 miles west of Wanatah city limit sign |
| 4L-1 (U.S. 41) | 2.55 miles south of SR 64 |
| 4L-23 (U.S. 31) | 3.95 miles north of Howard-Miami Co. line |

Two-Lane Highways

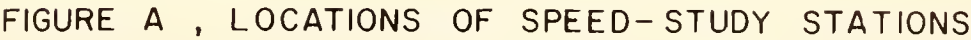
| | |
|-------------------|---|
| *2L-18 (U.S. 35) | 2.5 miles east of junction of I-69 |
| *2L-54 (U.S. 231) | 1.1 miles south of junction of SR 234 |
| 2L-55 (SR 67) | 5.0 miles south of SR 39 and 67 |
| 2L-63 (SR 64) | 2.75 miles east of Gibson-Pike Co. line |

Urban Interstate Highways

| | |
|---------------------|----------------------------|
| *UI-6 (I-65) | East of White River Bridge |
| <u>UI-5 (I-465)</u> | Township Line Road Bridge |

*Control stations

**Toll Road



The vehicles were classified as Indiana or Non-Indiana Passenger Cars and Light (less than 5000 lbs. gross weight) or Heavy (equal to or more than 5000 lbs. gross weight) Trucks. The analysis was performed as classified and combined, passenger cars or trucks.

The maximum speed limit in Indiana is 55 miles per hour, both on Interstate and other rural highways.

Equipment and Field Procedure

The observations for this study were obtained by use of a Radar Speed Meter. The meter was located in a van type vehicle parked as a disabled vehicle on the right shoulder. The van was equipped with one-way vision windows on the rear and side facing traffic so that approaching vehicles could not observe the speed measurement process. The observers were also equipped with CB radio equipment so as to monitor possible radio notification of the speed measurement and of police vehicles in the area. When any such incidents occurred speeds were not taken for at least a following 15 minute period. Such periods rarely occurred. There was rarely indication, in fact, that motorists were ever aware of the presence of a speed measuring station while it was in operation.

The speed was measured at a distance from the van so that the angle of measurement with the highway center line was always less than 10° . No corrections of speeds were necessary at these small angles. At the beginning of the study the accuracy of the meter was checked and any constant discrepancy of readings was corrected accordingly.

RESULTS OF ANALYSIS

The data collected were analyzed and are summarized in Tables 1 to 14 in the Appendix. Tables 15, 16, 17 and 18 summarize the data for rural interstate, four-lane, two-lane and urban interstate highways, respectively. Table 19 is the summary for all highways. Tables 20 through 34 are summaries in an FHWA format which is desired.

The average speed for each classification of vehicles on each type of highway for this study was as follows:

| | <u>Interstate</u> | | <u>Other Four Lane Rural</u> | <u>Two Lane Rural</u> |
|------------------------|-------------------|--------------|--------------------------------------|---------------------------|
| | <u>Urban</u> | <u>Rural</u> | | |
| <u>Passenger Cars:</u> | | | | |
| Indiana | 59.8 | 61.2 | 58.4 | 57.7 |
| Non-Indiana | 59.0 | 61.8 | 59.6 | 58.4 |
| All Passenger Cars | 59.7 | 61.5 | 58.6 | 57.8 |
| 85 Percentile (all) | 62.9 | 66.1 | 62.9 | 63.0 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 59.1 | 60.1 | 57.5 | 56.7 |
| 5000 lbs. or more | 56.6 | 61.3 | 57.8 | 54.7 |
| <u>All Vehicles:</u> | | | | |
| Average | 58.8 | 61.3 | 58.2 | 56.8 |
| 85 Percentile | 62.9 | 66.0 | 62.7 | 62.3 |

The percent of vehicles exceeding the speed limit (55 mph) for each classification of vehicle and each type of highway was as follows:

| | <u>Interstate</u> | | <u>Four Lane</u> | <u>Two Lane</u> |
|------------------------|-------------------|--------------|------------------|-----------------|
| | <u>Urban</u> | <u>Rural</u> | | |
| <u>Passenger Cars:</u> | | | | |
| Indiana | 85.5 | 90.2 | 72.5 | 65.2 |
| Non-Indiana | 77.4 | 92.8 | 80.7 | 65.6 |
| All Passenger Cars | 84.5 | 91.5 | 73.7 | 65.2 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 75.2 | 82.1 | 65.0 | 56.1 |
| 5000 lbs. or more | 65.6 | 88.7 | 72.0 | 47.0 |
| All Vehicles: | 77.8 | 89.5 | 71.8 | 59.0 |

The percent of vehicles traveling more than 5 mph above the speed limit (exceeding 60 mph) for each case was as follows:

| | <u>Urban</u> | <u>Interstate</u> <u>Rural</u> | <u>Other</u> <u>Four Lane</u> <u>Rural</u> | <u>Two Lane</u> <u>Rural</u> |
|------------------------|--------------|-----------------------------------|--|---------------------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 39.3 | 49.4 | 32.3 | 29.8 |
| Non-Indiana | 33.9 | 55.9 | 40.7 | 28.1 |
| All Passenger Cars | 38.6 | 52.8 | 33.6 | 29.7 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 35.8 | 45.8 | 28.6 | 27.2 |
| 5000 lbs. or more | 20.7 | 57.3 | 29.1 | 15.7 |
| <u>All Vehicles:</u> | 33.3 | 53.8 | 31.6 | 25.8 |

The percent of vehicles traveling more than 10 miles per hour above the speed limit (exceeding 65 mph) for each case was as follows:

| | <u>Urban</u> | <u>Interstate</u> <u>Rural</u> | <u>Other</u> <u>Four Lane</u> <u>Rural</u> | <u>Two Lane</u> <u>Rural</u> |
|------------------------|--------------|-----------------------------------|--|---------------------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 10.7 | 17.9 | 8.0 | 9.5 |
| Non-Indiana | 4.8 | 20.3 | 11.0 | 10.9 |
| All Passenger Cars | 10.0 | 19.2 | 8.5 | 9.6 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 8.8 | 18.5 | 8.6 | 7.8 |
| 5000 lbs. or more | 1.7 | 20.2 | 7.3 | 2.9 |
| <u>All Vehicles:</u> | 7.5 | 19.5 | 8.2 | 7.6 |

Summary and Conclusions

The overall average speeds for all vehicles and for all passenger cars in this study were found to be 58.7 mph and 59.3 mph, respectively. The overall average speeds for heavy trucks and for all trucks were found to be 58.2 mph and 58.1, respectively. These overall speeds show an increase over the results of the July-September 1977 quarter of 1.2 mph for all vehicles and 1.5 mph for all passenger cars. The overall average speeds for heavy trucks and for all trucks were respectively 0.8 mph and 1.1 mph more than the results for the July-September 1977 study.

Table A presents a comparison of the overall speed results with that of the previous two studies. The 85th percentiles and the average speeds have increased considerably when compared to the previous July-September 1977 study.

A comparison of October-December 1977 speed data with that for other recent periods for several types of highways for passenger cars and trucks is shown in Tables B, C, D, and E. Speeds increased on all highway types for both passenger cars and trucks except for heavy trucks on Urban Interstate where a slight decrease was recorded, when compared to the July-September 1977 study. The largest increase occurred on Rural Interstates.

TABLE A
COMPARISON OF THE OVERALL SPEED RESULTS

| | Oct.-Dec. 1977 | July-Sept. 1977 | April-June 1977 |
|-----------------------|-------------------|--------------------|--------------------|
| <u>Average</u> | | | |
| All Passenger Cars | 59.3 | 57.8 | 58.1 |
| Heavy Trucks | 58.2 | 57.4 | 58.6 |
| All Trucks | 58.1 | 57.0 | 58.0 |
| <u>85 Percentile:</u> | | | |
| All Passenger Cars | 64.0 | 62.6 | 63.0 |
| Heavy Trucks | 63.4 | 62.5 | 63.3 |
| All Trucks | 63.3 | 62.3 | 63.0 |
| <u>15 Percentile</u> | | | |
| Heavy Trucks | 52.0 | 51.1 | 52.9 |

TABLE B
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (URBAN)

| | Oct.-Dec. 1977 | July-Sept. 1977 | April-June 1977 | Jan.-Mar. 1977 |
|------------------------|-------------------|--------------------|--------------------|-------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 59.8 | 58.7 | 58.7 | 57.0 |
| Non-Indiana | 59.0 | 59.0 | 59.1 | 57.1 |
| All Passenger Cars | 59.7 | 58.8 | 58.8 | 57.0 |
| 85 Percentile (all) | 63.8 | 62.7 | 62.9 | 61.5 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 59.1 | 57.7 | 57.7 | 55.9 |
| 5000 lbs. or more | 56.6 | 58.2 | 58.9 | 56.2 |

TABLE C
AVERAGE SPEEDS ON INTERSTATE HIGHWAYS (RURAL)

| | Oct.-Dec. 1977 | July-Sept. 1977 | April-June 1977 | Jan.-Mar. 1977 |
|------------------------|-------------------|--------------------|--------------------|-------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 61.2 | 60.1 | 60.4 | 60.1 |
| Non-Indiana | 61.8 | 60.1 | 60.5 | 61.0 |
| All Passenger Cars | 61.5 | 60.1 | 60.5 | 60.5 |
| 85 Percentile (all) | 66.1 | 64.5 | 64.8 | 64.7 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 60.1 | 58.4 | 59.3 | 58.0 |
| 5000 lbs. or more | 61.3 | 59.7 | 60.9 | 59.3 |

TABLE D
AVERAGE SPEEDS ON OTHER FOUR-LANE HIGHWAYS

| | Oct.-Dec. 1977 | July-Sept. 1977 | April-June 1977 | Jan.-Mar. 1977 |
|------------------------|-------------------|--------------------|--------------------|-------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 58.4 | 57.0 | 57.1 | 56.7 |
| Non-Indiana | 59.6 | 58.1 | 57.8 | 58.7 |
| All Passenger Cars | 58.6 | 57.2 | 57.2 | 57.0 |
| 85 Percentile (all) | 62.9 | 62.0 | 61.9 | 61.7 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 57.5 | 55.7 | 56.7 | 54.8 |
| 5000 lbs. or more | 57.8 | 56.6 | 58.0 | 54.8 |

TABLE E
AVERAGE SPEEDS ON TWO-LANE HIGHWAYS

| | Oct.-Dec. 1977 | July-Sept. 1977 | April-June 1977 | Jan.-Mar. 1977 |
|------------------------|-------------------|--------------------|--------------------|-------------------|
| <u>Passenger Cars:</u> | | | | |
| Indiana | 57.7 | 55.9 | 56.3 | 56.5 |
| Non-Indiana | 58.4 | 55.9 | 57.3 | 58.3 |
| All Passenger Cars | 57.8 | 55.9 | 56.4 | 56.7 |
| 85 Percentile (all) | 63.0 | 60.9 | 61.4 | 61.8 |
| <u>Trucks:</u> | | | | |
| Less than 5000 lbs. | 56.7 | 54.9 | 55.6 | 55.8 |
| 5000 lbs. or more | 54.7 | 53.5 | 55.1 | 53.5 |

TABLE 1 SPEED DATA

STATION RI-6 HIGHWAY I-65 LOCATION 7.5 north of SR 160

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 11-9-77

TIME 12:10 - 1:00 PM SB

DATE 8-10-77

TIME 12:19 - 1:00 PM SB

1:07 - 2:55 PM NB

1:15 - 1:56 PM NB

| | PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | | | | | | | | | | | | | | | |
|---|----------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|-------|-------|-------|-------|------------|-------|-------|-------|-------|
| | ALL | | | | | INDIANA | | | | | NON-INDIANA | | | | | ALL | | | | | <5000 LBS. | | | | | >5000 LBS. | | | | |
| | PRES- | | ENI | LAST | ENT | PRES- | | ENI | LAST | ENT | PRES- | | ENI | LAST | ENT | PRES- | | ENI | LAST | ENT | PRES- | | ENI | LAST | ENT | PRES- | | ENI | LAST | ENT |
| OBSERVATION | LAST | 246 | 223 | 134 | 128 | 112 | 95 | 184 | 200 | 57 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| NUMBER OF VEHICLES | 246 | 223 | 134 | 128 | 112 | 95 | 184 | 200 | 57 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| AVE. SPEED (MPH) | 60.70 | 60.66 | 60.70 | 60.66 | 60.60 | 60.67 | 60.10 | 59.62 | 59.80 | 59.34 | 59.34 | 60.20 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 | 59.81 |
| STANDARD DEVIATION | 5.400 | 4.742 | 5.210 | 4.916 | 5.640 | 4.542 | 4.680 | 5.221 | 5.460 | 6.133 | 4.300 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 | 4.897 |
| PERCENT OF VEHICLES TRAVELING AT OR LESS THAN | 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 44 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 49 MPH | 1.2 | 4 | 1.5 | 8 | 9 | 0 | 1.1 | 3.5 | 1.8 | 6.0 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 | 2.7 |
| | 54 MPH | 9.4 | 7.6 | 2.7 | 7.8 | 8.9 | 7.4 | 10.3 | 13.5 | 14.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| | 59 MPH | 45.1 | 43.5 | 42.5 | 46.1 | 48.2 | 40.0 | 44.6 | 51.0 | 56.1 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 | 58.0 |
| | 64 MPH | 80.1 | 80.7 | 79.8 | 78.9 | 80.4 | 83.2 | 85.3 | 81.0 | 82.5 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 | 80.0 |
| | 69 MPH | 94.3 | 94.6 | 95.5 | 95.3 | 92.9 | 93.7 | 97.3 | 98.0 | 94.7 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 | 96.0 |
| | 74 MPH | 98.4 | 99.6 | 97.8 | 99.2 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 79 MPH | 99.6 | 100.0 | 100.0 | 100.0 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 84 MPH | 99.6 | 100.0 | 100.0 | 100.0 | 99.1 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| | 89 MPH | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| DIRECTION NB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER OF VEHICLES | 131 | 112 | 71 | 67 | 60 | 45 | 84 | 100 | 25 | 25 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| AVERAGE SPEED | 59.40 | 60.52 | 59.30 | 60.43 | 59.50 | 60.64 | 58.60 | 59.89 | 57.40 | 57.40 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 | 57.72 |
| DIRECTION SB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NUMBER OF VEHICLES | 115 | 111 | 62 | 61 | 52 | 50 | 100 | 100 | 32 | 32 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| AVERAGE SPEED | 62.30 | 60.81 | 62.20 | 60.90 | 62.50 | 60.70 | 61.30 | 59.49 | 61.60 | 61.60 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 | 61.57 |

TABLE 2 SPEED DATA

STATION RI-21 HIGHWAY I-69 LOCATION 1.6 miles south of SR 1b
 NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Pt. Cloudy

THIS CENSERVATION

DATE 11-21-77
 TIME 10:29 - 11:22 AM SB
11:32 AM - 12:28 PM NB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 7-27-77
 TIME 10:49 - 11:31 AM SB
11:56 AM - 12:46 PM NB

| | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|---------------------|----------------|-------|-------|-------------|-------|-------|-------|-------|-------|--------|-------|-------|
| | LAST | ENT | PRES- | LAST | ENT | PRES- | LAST | ENT | PRES- | LAST | ENT | PRES- |
| OBSERVATION | 263 | 247 | | 178 | 132 | | 85 | 115 | | 174 | 189 | |
| NUMBER OF VEHICLES | 49.8 | 40.9 | | 51.7 | 45.5 | | 45.9 | 35.7 | | 50.6 | 45.0 | |
| AVERAGE SPEED (MPH) | 85.9 | 78.9 | | 86.0 | 79.5 | | 85.9 | 78.3 | | 83.9 | 77.8 | |
| STANDARD DEVIATION | 95.4 | 93.9 | | 96.6 | 92.4 | | 92.9 | 95.7 | | 95.4 | 95.2 | |
| PERCENT | 98.5 | 98.4 | | 99.4 | 97.0 | | 96.5 | 100.0 | | 99.4 | 100.0 | |
| OF | 99.6 | 100.0 | | 100.0 | 100.0 | | 98.8 | 100.0 | | 100.0 | 100.0 | |
| VEHICLES | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | |
| TRAVELING | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | |
| AT OR | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | |
| LESS THAN | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | | 100.0 | 100.0 | |
| DIRECTION | NB | | | | | | | | | | | |
| NUMBER OF VEHICLES | 128 | 112 | | 86 | 57 | | 42 | 55 | | 91 | 101 | |
| AVERAGE SPEED | 60.30 | 62.79 | | 60.30 | 63.44 | | 60.10 | 62.13 | | 60.80 | 62.10 | |
| DIRECTION | SB | | | | | | | | | | | |
| NUMBER OF VEHICLES | 135 | 135 | | 92 | 75 | | 43 | 60 | | 83 | 88 | |
| AVERAGE SPEED | 60.10 | 59.97 | | 59.60 | 59.20 | | 61.00 | 60.93 | | 58.50 | 58.15 | |

TABLE 3 SPEED DATA

STATION RI-22 HIGHWAY I-69 LOCATION 7.3 miles south of SR 3 Interchange

NO. OF LANES 4 TYPE OF SURFACE Concrete WEATHER Cloudy

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 11-22-77 DATE

TIME 9:28 - 10:30 AM TIME

10:51 - 11:57 AM SB

| PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | | | | | |
|----------------|--|--|--|--|-------------|--|--|--|--|------------|--|--|--|--|------------|--|--|--|--|
| INDIANA | | | | | NON-INDIANA | | | | | <5000 LBS. | | | | | >5000 LBS. | | | | |
| PRES- | | | | | PRES- | | | | | PRES- | | | | | PRES- | | | | |
| LASI | | | | | LASI | | | | | LASI | | | | | LASI | | | | |
| ENI | | | | | ENI | | | | | ENI | | | | | ENI | | | | |
| 151 | | | | | 107 | | | | | 169 | | | | | 39 | | | | |
| 61.79 | | | | | 62.65 | | | | | 60.58 | | | | | 59.56 | | | | |
| 4.983 | | | | | 5.817 | | | | | 4.779 | | | | | 4.346 | | | | |
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TABLE 4. SPEED DATA

| | | | | | |
|--------------|-------|-----------------|-----------|----------|--|
| STATION | RI-26 | HIGHWAY | I-80 & 90 | LOCATION | 3.75 miles east of LaGrange-Elkhart Co. Line |
| NO. OF LANES | 4 | TYPE OF SURFACE | Concrete | | at 112 mile post marker; TOLL ROAD |
| | | | | WEATHER | Clear |

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THIS CERVATION
DATE 11-16-77
TIME 12:34 - 1:48 PM - EB
2:09 - 3:13 PM - WB

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ---)
DATE ---
TIME ---

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| PASSENGER CARS | | | INDIANA | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|--------------------|------|-------|---------|-------|------|-------------|-----|-------|-----|-------|------|--------|------|-------|
| OBSERVATION | LAST | ENT | LAST | ENT | LAST | LAST | ENT | LAST | ENT | LAST | LAST | ENT | LAST | ENT |
| NUMBER OF VEHICLES | 0 | 159 | 0 | 18 | 0 | 0 | 141 | 0 | 272 | 0 | 0 | 23 | 0 | 249 |
| AVE. SPEED (MPH) | 0 | 62.06 | 0 | 61.06 | 0 | 62.19 | 0 | 62.81 | 0 | 63.17 | 0 | 63.17 | 0 | 63.78 |
| STANDARD DEVIATION | 0 | 4.811 | 0 | 4.832 | 0 | 4.811 | 0 | 4.891 | 0 | 5.758 | 0 | 5.758 | 0 | 4.815 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 MPH | 0 | 3.1 | 0 | 11.1 | 0 | 2.1 | 0 | 1.1 | 0 | 0 | 0 | 0 | 0 | 1.2 |
| 59 MPH | 0 | 28.3 | 0 | 38.5 | 0 | 27.0 | 0 | 23.5 | 0 | 4.3 | 0 | 4.3 | 0 | 2.8 |
| 64 MPH | 0 | 74.8 | 0 | 72.2 | 0 | 75.2 | 0 | 66.2 | 0 | 21.7 | 0 | 21.7 | 0 | 23.7 |
| 69 MPH | 0 | 92.5 | 0 | 100.0 | 0 | 91.5 | 0 | 89.7 | 0 | 60.9 | 0 | 60.9 | 0 | 66.7 |
| 74 MPH | 0 | 98.1 | 0 | 100.0 | 0 | 97.9 | 0 | 99.3 | 0 | 82.6 | 0 | 82.6 | 0 | 90.4 |
| 79 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 99.2 |
| 84 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| 89 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| DIRECTION | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| NUMBER OF VEHICLES | 0 | 64 | 0 | 7 | 0 | 57 | 0 | 152 | 0 | 15 | 0 | 15 | 0 | 137 |
| AVERAGE SPEED | 0 | 61.80 | 0 | 60.29 | 0 | 61.98 | 0 | 63.33 | 0 | 63.67 | 0 | 63.67 | 0 | 63.29 |
| DIRECTION | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NUMBER OF VEHICLES | 0 | 55 | 0 | 11 | 0 | 84 | 0 | 120 | 0 | 8 | 0 | 8 | 0 | 112 |
| AVERAGE SPEED | 0 | 62.24 | 0 | 61.53 | 0 | 62.33 | 0 | 62.15 | 0 | 62.25 | 0 | 62.25 | 0 | 62.14 |

TABLE 5 SPEED DATA

STATION 4L-17 HIGHWAY U.S. 52 LOCATION 150 feet east of county road 475W

NO. OF LANES 4 TYPE OF SURFACE Asphalt WEATHER Cloudy

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 11-8-77

TIME 9:29 - 11:26 AM WB

12:29 - 1:44 PM EB

| | PASSENGER CARS | | | | INDIANA | | | | NON-INDIANA | | | | ALL | | | | TRUCKS | | | |
|---------------------|----------------|-------|-------|-------|---------|-------|-------|-------|-------------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI |
| NUMBER OF VEHICLES | 278 | 281 | 246 | 264 | 32 | 17 | 151 | 150 | 32 | 17 | 151 | 150 | 32 | 17 | 151 | 150 | 89 | 92 | 62 | 57 |
| AVERAGE SPEED (MPH) | 56.80 | 57.76 | 56.60 | 57.61 | 58.00 | 60.06 | 56.10 | 55.91 | 56.30 | 55.91 | 56.10 | 55.91 | 56.30 | 55.91 | 56.10 | 55.91 | 55.80 | 55.94 | 55.80 | 55.86 |
| STANDARD DEVIATION | 5.900 | 5.506 | 6.000 | 5.527 | 5.000 | 4.736 | 7.250 | 6.159 | 7.040 | 6.159 | 7.250 | 6.159 | 7.040 | 6.159 | 7.250 | 6.159 | 7.580 | 7.544 | 7.580 | 7.531 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 7 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 40 | 4 | 45 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 MPH | 83 | 75 | 85 | 80 | 63 | 0 | 139 | 140 | 101 | 140 | 139 | 140 | 101 | 140 | 139 | 140 | 101 | 161 | 124 | 135 |
| 54 MPH | 288 | 253 | 309 | 265 | 125 | 59 | 351 | 380 | 405 | 380 | 351 | 380 | 405 | 380 | 351 | 380 | 405 | 398 | 274 | 355 |
| 59 MPH | 719 | 619 | 724 | 629 | 688 | 471 | 742 | 770 | 787 | 770 | 742 | 770 | 787 | 770 | 742 | 770 | 787 | 699 | 677 | 807 |
| 64 MPH | 910 | 897 | 919 | 909 | 844 | 706 | 927 | 920 | 944 | 920 | 927 | 920 | 944 | 920 | 927 | 920 | 944 | 903 | 903 | 947 |
| 69 MPH | 982 | 979 | 980 | 977 | 1000 | 1000 | 987 | 982 | 978 | 982 | 987 | 982 | 978 | 982 | 987 | 982 | 978 | 989 | 1000 | 982 |
| 74 MPH | 996 | 993 | 996 | 992 | 1000 | 1000 | 993 | 990 | 989 | 990 | 993 | 990 | 989 | 990 | 993 | 990 | 989 | 1000 | 1000 | 1000 |
| 79 MPH | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 84 MPH | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| 89 MPH | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| DIRECTION | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB | EB |
| NUMBER OF VEHICLES | 146 | 144 | 131 | 135 | 15 | 9 | 69 | 74 | 43 | 50 | 69 | 74 | 43 | 50 | 69 | 74 | 43 | 26 | 26 | 24 |
| AVERAGE SPEED | 56.20 | 58.15 | 55.90 | 58.01 | 58.10 | 60.33 | 54.50 | 55.82 | 54.60 | 55.80 | 54.50 | 55.82 | 54.60 | 55.80 | 54.50 | 55.82 | 54.60 | 54.30 | 54.30 | 55.88 |
| DIRECTION | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB | WB |
| NUMBER OF VEHICLES | 132 | 137 | 115 | 129 | 17 | 8 | 82 | 76 | 46 | 43 | 82 | 76 | 46 | 43 | 82 | 76 | 46 | 36 | 36 | 35 |
| AVERAGE SPEED | 57.40 | 57.35 | 57.30 | 57.20 | 57.80 | 59.75 | 57.50 | 55.99 | 57.90 | 56.09 | 57.50 | 55.99 | 57.90 | 56.09 | 57.50 | 55.99 | 57.90 | 57.00 | 57.00 | 55.85 |

TABLE 6 SPEED DATA

STATION 4L-22 HIGHWAY US 30 LOCATION 2.9 miles west of Manatah city limit sign

NO. OF LANES 4 TYPE CF SURFACE Asphalt WEATHER Cloudy

THIS CERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 11-18-77

DATE 7-20-77

TIME 9:28 AM WB

TIME 9:05 AM EB

TIME 10:34 AM WB

TIME 10:31 PM - 12:04 AM WB

| | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|--------------------|----------------|-------|------|-------------|-------|------|-------|-------|------|--------|-------|------|
| | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES |
| OBSERVATION | 180 | 213 | | 131 | 177 | | 248 | 226 | | 47 | 201 | |
| NUMBER OF VEHICLES | 180 | 213 | | 131 | 177 | | 248 | 226 | | 47 | 201 | |
| AVE. SPEED (MPH) | 57.50 | 59.09 | | 57.40 | 59.01 | | 58.50 | 59.18 | | 57.30 | 58.80 | |
| STANDARD DEVIATION | 4.790 | 5.263 | | 4.510 | 5.332 | | 4.530 | 5.241 | | 4.130 | 4.580 | |
| PERCENT | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| OF | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| VEHICLES | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| TRAVELING | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| AT OR | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| LESS THAN | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| DIRECTION | 94 | 108 | | 68 | 89 | | 121 | 114 | | 24 | 97 | |
| NUMBER OF VEHICLES | 94 | 108 | | 68 | 89 | | 121 | 114 | | 24 | 97 | |
| AVERAGE SPEED | 57.60 | 61.00 | | 57.70 | 60.85 | | 59.30 | 60.82 | | 56.80 | 59.90 | |
| DIRECTION | 86 | 105 | | 63 | 88 | | 127 | 112 | | 23 | 104 | |
| NUMBER OF VEHICLES | 86 | 105 | | 63 | 88 | | 127 | 112 | | 23 | 104 | |
| AVERAGE SPEED | 57.30 | 57.12 | | 57.20 | 57.14 | | 57.80 | 57.51 | | 57.80 | 57.80 | |

TABLE 7 SPEED DATA

STATION 4L-1 HIGHWAY US 41 LOCATION 2.55 miles south of SR 64

NO. OF LANES 4 TYPE CF SURFACE WEATHER Cloudy, Cold

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 11-10-77

TIME 1:24 - 2:10 PM SB

2:29 - 3:23 PM NB

| | | | | | | | | | | PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | | | | | |
|--------------------|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|-------------|--|--|--|--|--------|--|--|--|--|------------|--|--|--|--|
| | | | | | | | | | | INDIANA | | | | | NON-INDIANA | | | | | ALL | | | | | <5000 LBS. | | | | |
| | | | | | | | | | | PRES- | | | | | PRES- | | | | | PRES- | | | | | PRES- | | | | |
| | | | | | | | | | | LAST | | | | | LAST | | | | | LAST | | | | | LAST | | | | |
| OBSERVATION | | | | | | | | | | ENT | | | | | ENT | | | | | ENT | | | | | ENT | | | | |
| NUMBER OF VEHICLES | | | | | | | | | | 175 | | | | | 58 | | | | | 195 | | | | | 0 | | | | |
| AVE. SPEED (MPH) | | | | | | | | | | 57.98 | | | | | 59.10 | | | | | 57.50 | | | | | 0 | | | | |
| STANDARD DEVIATION | | | | | | | | | | 5.309 | | | | | 5.556 | | | | | 5.856 | | | | | 0 | | | | |
| 24 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 29 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 34 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 39 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 44 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 49 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 54 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 59 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 64 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 69 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 74 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 79 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 84 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| 89 MPH | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| DIRECTION | | | | | | | | | | JNB | | | | | JNB | | | | | JNB | | | | | JNB | | | | |
| NUMBER OF VEHICLES | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| AVERAGE SPEED | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| DIRECTION | | | | | | | | | | SB | | | | | SB | | | | | SB | | | | | SB | | | | |
| NUMBER OF VEHICLES | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |
| AVERAGE SPEED | | | | | | | | | | 0 | | | | | 0 | | | | | 0 | | | | | 0 | | | | |

TABLE 3 SPEED DATA

STATION 4L-22 HIGHWAY US 31 LOCATION 3.95 miles north of Howard-Miami County Line

NO. OF LANES 4 TYPE CF SURFACE Concrete WEATHER Cloudy

THIS CERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

DATE 11-17-77

TIME 10:30 - 11:20 AM NB

11:40 AM - 12:19 PM SB

| | PASSENGER CARS | | | | TRUCKS | | | |
|---------------------|----------------|---------|-------------|-------|-----------|-----------|------|-------|
| | ALL | INDIANA | NON-INDIANA | ALL | <5000 LBS | >5000 LBS | FRES | FRES |
| OBSERVATION | LASI | ENI | LASI | ENI | LASI | ENI | LASI | ENI |
| NUMBER OF VEHICLES | 265 | 231 | 0 | 34 | 0 | 64 | 0 | 109 |
| AVERAGE SPEED (MPH) | 59.22 | 59.03 | 0 | 60.47 | 0 | 58.67 | 0 | 56.94 |
| STANDARD DEVIATION | 4.933 | 4.936 | 0 | 4.794 | 0 | 5.509 | 0 | 5.055 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 4 | 0 | 0 | 0 | 1.6 | 0 | 1.8 |
| 49 MPH | 0 | 1.5 | 0 | 0 | 0 | 3.1 | 0 | 3.2 |
| 54 MPH | 0 | 16.2 | 0 | 2.9 | 0 | 23.4 | 0 | 27.5 |
| 59 MPH | 0 | 53.6 | 0 | 44.1 | 0 | 59.4 | 0 | 72.5 |
| 64 MPH | 0 | 89.1 | 0 | 82.4 | 0 | 90.6 | 0 | 92.7 |
| 69 MPH | 0 | 97.0 | 0 | 97.1 | 0 | 96.9 | 0 | 100.0 |
| 74 MPH | 0 | 99.2 | 0 | 97.1 | 0 | 98.4 | 0 | 100.0 |
| 79 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| 84 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| 89 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| DIRECTION NB | | | | | | | | |
| NUMBER OF VEHICLES | 0 | 113 | 0 | 12 | 0 | 35 | 0 | 62 |
| AVERAGE SPEED | 0 | 59.54 | 0 | 61.17 | 0 | 58.63 | 0 | 57.69 |
| DIRECTION SB | | | | | | | | |
| NUMBER OF VEHICLES | 0 | 118 | 0 | 22 | 0 | 29 | 0 | 47 |
| AVERAGE SPEED | 0 | 58.93 | 0 | 60.09 | 0 | 58.72 | 0 | 55.96 |

TABLE 9 SPEED DATA

STATION 2L-1E HIGHWAY US 35 LOCATION 2.5 miles east of I-69

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Pt. Cloudy

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 11-21-77

DATE 7-27-77

TIME 1:37 - 3:28 PM

TIME 1:56 - 3:45 PM

| | PASSENGER CARS | | | | | | | | | | TRUCKS | | | | | | | | | | | | | | |
|--------------------|----------------|-------|-------|-------|-------|-------------|-------|-------|-------|-------|--------|-------|-------|-------|-------|------------|-------|-------|-------|-------|------------|-------|-------|-------|--|
| | INDIANA | | | | | NON-INDIANA | | | | | ALL | | | | | <5000 LBS. | | | | | >5000 LBS. | | | | |
| | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | PRES- | | |
| OBSERVATION | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT | |
| NUMBER OF VEHICLES | 283 | 276 | 252 | 257 | 26 | 24 | 146 | 168 | 79 | 74 | 79 | 74 | 79 | 74 | 79 | 74 | 79 | 74 | 79 | 74 | 79 | 74 | 79 | 74 | |
| AVE. SPEED (MPH) | 57.60 | 58.38 | 58.37 | 57.50 | 58.10 | 58.50 | 55.30 | 55.78 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | 56.10 | 57.49 | |
| STANDARD DEVIATION | 6.080 | 5.426 | 5.460 | 6.110 | 5.810 | 5.158 | 6.360 | 5.692 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | 5.991 | 6.410 | | |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 25 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 35 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 44 MPH | 2.1 | 4.3 | 4.8 | 2.3 | 3.8 | 0 | 6.2 | 1.2 | 5.1 | 0 | 6.2 | 1.2 | 5.1 | 1.4 | 5.1 | 1.4 | 5.1 | 1.4 | 5.1 | 1.4 | 5.1 | 1.4 | 5.1 | | |
| 45 MPH | 7.1 | 7.4 | 22.2 | 7.4 | 3.8 | 0 | 15.8 | 11.9 | 12.7 | 0 | 15.8 | 11.9 | 12.7 | 5.4 | 12.7 | 5.4 | 12.7 | 5.4 | 12.7 | 5.4 | 12.7 | 5.4 | 12.7 | | |
| 54 MPH | 27.9 | 22.1 | 27.6 | 27.6 | 30.8 | 20.8 | 43.2 | 43.3 | 38.0 | 20.8 | 43.2 | 43.3 | 38.0 | 31.1 | 38.0 | 31.1 | 38.0 | 31.1 | 38.0 | 31.1 | 38.0 | 31.1 | 38.0 | | |
| 55 MPH | 67.1 | 62.7 | 62.7 | 67.7 | 61.5 | 62.5 | 73.3 | 75.0 | 70.9 | 62.5 | 73.3 | 75.0 | 70.9 | 66.2 | 70.9 | 66.2 | 70.9 | 66.2 | 70.9 | 66.2 | 70.9 | 66.2 | 70.9 | | |
| 64 MPH | 88.0 | 87.3 | 88.3 | 87.3 | 84.6 | 87.5 | 93.2 | 97.0 | 89.9 | 87.5 | 93.2 | 97.0 | 89.9 | 94.6 | 89.9 | 94.6 | 89.9 | 94.6 | 89.9 | 94.6 | 89.9 | 94.6 | 89.9 | | |
| 69 MPH | 96.5 | 96.0 | 96.1 | 96.0 | 100.0 | 95.8 | 99.3 | 99.4 | 98.7 | 95.8 | 99.3 | 99.4 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | 98.6 | 98.7 | | |
| 72 MPH | 99.3 | 99.3 | 99.2 | 99.2 | 100.0 | 100.0 | 100.0 | 99.4 | 100.0 | 100.0 | 100.0 | 99.4 | 100.0 | 98.6 | 100.0 | 98.6 | 100.0 | 98.6 | 100.0 | 98.6 | 100.0 | 98.6 | 100.0 | | |
| 75 MPH | 100.0 | 99.6 | 99.6 | 100.0 | 100.0 | 100.0 | 100.0 | 99.4 | 100.0 | 100.0 | 100.0 | 99.4 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |
| 84 MPH | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |
| 89 MPH | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | | |
| DIRECTION EB | 129 | 132 | 117 | 120 | 9 | 15 | 84 | 83 | 44 | 38 | 44 | 38 | 44 | 38 | 44 | 38 | 44 | 38 | 44 | 38 | 44 | 38 | 44 | | |
| NUMBER OF VEHICLES | 58.40 | 59.67 | 58.30 | 58.30 | 59.79 | 58.90 | 58.67 | 56.20 | 56.71 | 57.70 | 58.61 | 58.67 | 56.20 | 56.71 | 58.61 | 58.67 | 56.20 | 56.71 | 58.61 | 58.67 | 56.20 | 56.71 | 58.61 | | |
| AVERAGE SPEED | 154 | 144 | 137 | 137 | 135 | 17 | 9 | 62 | 85 | 35 | 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 | 35 | 36 | 35 | | |
| DIRECTION WB | 56.90 | 57.21 | 56.80 | 56.80 | 57.14 | 57.70 | 58.22 | 54.00 | 54.87 | 54.20 | 54.20 | 54.87 | 54.00 | 54.87 | 56.31 | 56.31 | 54.20 | 54.87 | 56.31 | 56.31 | 54.20 | 54.87 | 56.31 | | |
| NUMBER OF VEHICLES | 56.90 | 57.21 | 56.80 | 56.80 | 57.14 | 57.70 | 58.22 | 54.00 | 54.87 | 54.20 | 54.20 | 54.87 | 54.00 | 54.87 | 56.31 | 56.31 | 54.20 | 54.87 | 56.31 | 56.31 | 54.20 | 54.87 | 56.31 | | |
| AVERAGE SPEED | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | | |

TABLE 10 SPEED DATA

STATION 2L-54 HIGHWAY US 231 LOCATION 1.1 miles south of SR 234

NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Cloudy

THIS OBSERVATION DATE 11-15-77 LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)
 DATE 7-29-77
 TIME 10:43 AM - 1:37 PM TIME 10:14 AM - 12:42 PM

| | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|---|----------------|-------|-------|-------------|-------|-------|-------|-------|-------|--------|-------|-------|
| | LAST | ENT | PRES- | LAST | ENT | PRES- | LAST | ENT | PRES- | LAST | ENT | PRES- |
| NUMBER OF VEHICLES | 241 | 211 | 195 | 216 | 235 | 196 | 196 | 216 | 216 | 86 | 96 | 110 |
| AVERAGE SPEED (MPH) | 55.70 | 57.59 | 57.56 | 55.60 | 56.30 | 57.87 | 55.80 | 57.61 | 57.61 | 56.20 | 57.77 | 55.50 |
| STANDARD DEVIATION | 5.820 | 6.073 | 6.111 | 5.810 | 6.040 | 5.772 | 6.480 | 6.923 | 6.923 | 7.200 | 7.799 | 5.880 |
| PERCENT OF VEHICLES TRAVELING AT OR LESS THAN | | | | | | | | | | | | |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 8 | 0 | 0 | 9 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 |
| 44 MPH | 5.0 | 5 | 5 | 5.1 | 4.0 | 0 | 4.6 | 4.2 | 4.2 | 3.2 | 4.2 | 5.4 |
| 49 MPH | 10.8 | 7.1 | 7.2 | 11.6 | 4.0 | 6.3 | 14.8 | 11.6 | 11.6 | 16.3 | 13.5 | 13.6 |
| 54 MPH | 38.6 | 29.9 | 29.7 | 38.0 | 44.0 | 31.3 | 41.3 | 26.9 | 26.9 | 40.7 | 31.3 | 41.8 |
| 59 MPH | 78.8 | 67.3 | 67.2 | 79.2 | 76.0 | 68.8 | 74.5 | 61.1 | 61.1 | 70.9 | 60.4 | 77.3 |
| 64 MPH | 94.6 | 90.0 | 90.8 | 95.4 | 88.0 | 81.3 | 92.3 | 88.0 | 88.0 | 87.2 | 84.4 | 96.4 |
| 69 MPH | 98.8 | 94.8 | 94.6 | 98.6 | 100.0 | 93.8 | 98.0 | 97.2 | 97.2 | 96.5 | 93.8 | 99.1 |
| 74 MPH | 100.0 | 99.1 | 99.0 | 100.0 | 100.0 | 100.0 | 100.0 | 98.6 | 98.6 | 100.0 | 96.9 | 99.1 |
| 79 MPH | 100.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 99.5 | 100.0 | 99.0 | 100.0 |
| 84 MPH | 100.0 | 99.5 | 99.5 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 99.5 | 100.0 | 99.0 | 100.0 |
| 89 MPH | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 99.5 | 99.5 | 100.0 | 99.0 | 100.0 |
| DIRECTION NB | | | | | | | | | | | | |
| NUMBER OF VEHICLES | 110 | 106 | 101 | 102 | 8 | 5 | 102 | 106 | 106 | 43 | 47 | 59 |
| AVERAGE SPEED | 56.00 | 59.30 | 59.16 | 55.90 | 57.40 | 62.20 | 55.70 | 58.94 | 58.94 | 57.00 | 58.89 | 54.80 |
| DIRECTION SB | | | | | | | | | | | | |
| NUMBER OF VEHICLES | 131 | 105 | 94 | 114 | 17 | 11 | 94 | 110 | 110 | 43 | 49 | 51 |
| AVERAGE SPEED | 55.40 | 55.86 | 55.85 | 55.30 | 55.80 | 55.91 | 55.80 | 56.32 | 56.32 | 55.30 | 56.69 | 56.30 |

TABLE 11 SPEED DATA

STATION 2L-55 HIGHWAY SR 67 LOCATION 5 miles south of SR 39 & 67
 NO. OF LANES 2 TYPE OF SURFACE Asphalt WEATHER Clear

THIS CENSERVATION
 DATE 11-11-77
 TIME 9:33 - 11:31 AM
 LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)

| | PASSENGER CARS | | | | TRUCKS | | | |
|--------------------|----------------|-------|-------------|-------|-----------|-------|-----------|-------|
| | INDIANA | | NON-INDIANA | | <5000 LBS | | >5000 LBS | |
| | ALL | PRES- | ALL | PRES- | ALL | PRES- | ALL | PRES- |
| OBSERVATION | LAST | ENI | LAST | ENI | LAST | ENI | LAST | ENI |
| NUMBER OF VEHICLES | 0 | 254 | 0 | 16 | 0 | 164 | 0 | 103 |
| AVE. SPEED (MPH) | 0 | 59.66 | 0 | 60.19 | 0 | 56.49 | 0 | 57.17 |
| STANDARD DEVIATION | 0 | 5.617 | 0 | 6.167 | 0 | 5.615 | 0 | 5.835 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 4 | 0 | 0 | 0 | 2.4 | 0 | 0 |
| 49 MPH | 0 | 3.1 | 0 | 0 | 0 | 11.0 | 0 | 0 |
| 54 MPH | 0 | 12.2 | 0 | 12.5 | 0 | 31.1 | 0 | 8.7 |
| 59 MPH | 0 | 55.9 | 0 | 56.3 | 0 | 71.3 | 0 | 26.2 |
| 64 MPH | 0 | 82.7 | 0 | 75.0 | 0 | 95.1 | 0 | 68.9 |
| 69 MPH | 0 | 93.7 | 0 | 81.3 | 0 | 98.2 | 0 | 93.2 |
| 74 MPH | 0 | 99.2 | 0 | 100.0 | 0 | 99.4 | 0 | 97.1 |
| 79 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 99.4 | 0 | 99.0 |
| 84 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| 89 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 |
| DIRECTION | NR | | | | | | | |
| NUMBER OF VEHICLES | 0 | 131 | 0 | 11 | 0 | 76 | 0 | 47 |
| AVERAGE SPEED | 0 | 59.69 | 0 | 61.45 | 0 | 56.86 | 0 | 57.85 |
| DIRECTION | SB | | | | | | | |
| NUMBER OF VEHICLES | 0 | 123 | 0 | 5 | 0 | 88 | 0 | 56 |
| AVERAGE SPEED | 0 | 59.63 | 0 | 57.40 | 0 | 56.18 | 0 | 56.61 |

TABLE 12 SPEED DATA

STATION 2L-63 **HIGHWAY SR 64** **LOCATION 2.75 miles east of Gibson-Pike County Line**

NO. OF LANES 2

TYPE OF SURFACE Asphalt

WEATHER Cloudy, Cold

THIS CERVATION

DATE 11-10-77
TIME 9:13 AM

| OBSERVATION | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|---------------------|----------------|-------|------|-------------|-------|------|------|-------|------|--------|-------|------|
| | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES |
| NUMBER OF VEHICLES | 0 | 228 | | 0 | 8 | | 0 | 233 | | 0 | 87 | |
| AVERAGE SPEED (MPH) | 0 | 55.08 | | 0 | 55.88 | | 0 | 53.05 | | 0 | 54.16 | |
| STANDARD DEVIATION | 0 | 6.43 | | 0 | 4.64 | | 0 | 6.31 | | 0 | 6.91 | |
| 24 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 29 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 34 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 39 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 44 MPH | 0 | 3.9 | | 0 | 0 | | 0 | 2.6 | | 0 | 3.4 | |
| 49 MPH | 0 | 18.9 | | 0 | 12.5 | | 0 | 10.3 | | 0 | 8.1 | |
| 54 MPH | 0 | 50.9 | | 0 | 37.5 | | 0 | 27.0 | | 0 | 23.0 | |
| 59 MPH | 0 | 75.9 | | 0 | 75.0 | | 0 | 57.9 | | 0 | 52.9 | |
| 64 MPH | 0 | 93.4 | | 0 | 100.0 | | 0 | 85.4 | | 0 | 78.2 | |
| 69 MPH | 0 | 97.8 | | 0 | 100.0 | | 0 | 96.1 | | 0 | 92.0 | |
| 74 MPH | 0 | 99.6 | | 0 | 100.0 | | 0 | 99.6 | | 0 | 98.9 | |
| 79 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | |
| 84 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | |
| 89 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | |
| DIRECTION | EB | | | | | | | | | | | |
| NUMBER OF VEHICLES | 0 | 95 | | 0 | 1 | | 0 | 114 | | 0 | 41 | |
| AVERAGE SPEED | 0 | 56.61 | | 0 | 52.00 | | 0 | 53.18 | | 0 | 55.78 | |
| DIRECTION | WB | | | | | | | | | | | |
| NUMBER OF VEHICLES | 0 | 133 | | 0 | 7 | | 0 | 119 | | 0 | 46 | |
| AVERAGE SPEED | 0 | 53.98 | | 0 | 56.43 | | 0 | 52.92 | | 0 | 52.72 | |

TABLE 13 SPEED DATA

STATION UI-6 HIGHWAY I-65 LOCATION Just east of White River

NO. OF LANES 6 TYPE OF SURFACE Concrete WEATHER Clear

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE 11-14-77

DATE 8-1-77

TIME 1:08 - 1:35 PM EB

TIME 10:29 - 10:58 AM EB

1:48 - 2:14 PM WB

11:12 - 11:38 AM WB

| | PASSENGER CARS | | | | TRUCKS | | | |
|---------------------|----------------|-------|-------------|-------|--------|-------|------------|-------|
| | INDIANA | | NON-INDIANA | | ALL | | <5000 LBS. | |
| | PRES- | ENI | PRES- | ENI | PRES- | ENI | PRES- | ENI |
| OBSERVATION | LASI | LASI | LASI | LASI | LASI | LASI | LASI | LASI |
| NUMBER OF VEHICLES | 275 | 287 | 225 | 253 | 161 | 161 | 80 | 75 |
| AVERAGE SPEED (MPH) | 58.10 | 59.83 | 58.00 | 59.83 | 56.50 | 58.43 | 57.00 | 59.36 |
| STANDARD DEVIATION | 5.000 | 5.293 | 5.070 | 5.176 | 4.670 | 5.113 | 4.960 | 5.869 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 4 | 3 | 4 | 4 | 2 | 1 | 3 | 2 |
| 49 MPH | 36 | 17 | 44 | 16 | 62 | 31 | 38 | 7 |
| 54 MPH | 221 | 101 | 223 | 95 | 248 | 153 | 313 | 200 |
| 59 MPH | 615 | 537 | 625 | 545 | 708 | 602 | 688 | 547 |
| 64 MPH | 906 | 843 | 904 | 846 | 550 | 913 | 925 | 853 |
| 69 MPH | 978 | 951 | 978 | 953 | 994 | 975 | 988 | 947 |
| 74 MPH | 996 | 983 | 996 | 984 | 1000 | 994 | 1000 | 987 |
| 79 MPH | 1000 | 993 | 1000 | 996 | 1000 | 994 | 1000 | 987 |
| 84 MPH | 1000 | 997 | 1000 | 996 | 1000 | 1000 | 1000 | 1000 |
| 89 MPH | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
| DIRECTION EB | 143 | 141 | 114 | 121 | 76 | 85 | 38 | 35 |
| NUMBER OF VEHICLES | 57.80 | 59.94 | 57.70 | 60.15 | 56.00 | 57.66 | 56.30 | 58.43 |
| AVERAGE SPEED | 132 | 146 | 115 | 132 | 85 | 76 | 42 | 60 |
| DIRECTION WB | 58.40 | 59.71 | 58.40 | 59.53 | 57.70 | 59.36 | 57.60 | 60.17 |
| NUMBER OF VEHICLES | | | | | | | | |
| AVERAGE SPEED | | | | | | | | |

| TABLE 14 SPEED DATA | | | |
|---------------------|---------|------------------------------|----------|
| STATION | HIGHWAY | LOCATION | WEATHER |
| UI-5 | I-465 | At Township Line Road Bridge | Clear |
| NO. OF LANES | 6 | TYPE OF SURFACE | Concrete |

| THIS CERVATION | | LAST PREVIOUS OBSERVATION (SPEED REPORT NO. ---) | |
|----------------|------------------|--|------|
| DATE | TIME | DATE | TIME |
| 11-14-77 | 9:50 - 10:29 AM | | |
| | 11:05 - 11:37 AM | | |

| OBSERVATION | PASSENGER CARS | | NON-INDIANA | | ALL | | TRUCKS | |
|---------------------|----------------|-------|-------------|-------|------|-------|--------|-------|
| | LAST | ENT | LAST | ENT | LAST | ENT | LAST | ENT |
| NUMBER OF VEHICLES | 0 | 215 | 0 | 187 | 0 | 217 | 0 | 155 |
| AVERAGE SPEED (MPH) | 0 | 59.49 | 0 | 55.72 | 0 | 56.84 | 0 | 58.08 |
| STANDARD DEVIATION | 0 | 4.754 | 0 | 4.850 | 0 | 5.065 | 0 | 5.016 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 5 | 0 | 5 | 0 | 9 | 0 | 1 |
| 49 MPH | 0 | 1.4 | 0 | 1.6 | 0 | 1.8 | 0 | 2 |
| 54 MPH | 0 | 8.8 | 0 | 8.0 | 0 | 6.0 | 0 | 8 |
| 59 MPH | 0 | 53.5 | 0 | 50.8 | 0 | 30.0 | 0 | 33 |
| 64 MPH | 0 | 87.9 | 0 | 86.6 | 0 | 73.3 | 0 | 77 |
| 69 MPH | 0 | 96.3 | 0 | 96.3 | 0 | 94.0 | 0 | 96 |
| 74 MPH | 0 | 99.1 | 0 | 98.9 | 0 | 100.0 | 0 | 100 |
| 79 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100 |
| 84 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100 |
| 89 MPH | 0 | 100.0 | 0 | 100.0 | 0 | 100.0 | 0 | 100 |
| DIRECTION | 0 | 108 | 0 | 95 | 0 | 105 | 0 | 15 |
| NUMBER OF VEHICLES | 0 | 108 | 0 | 95 | 0 | 105 | 0 | 15 |
| AVERAGE SPEED | 0 | 59.87 | 0 | 60.03 | 0 | 57.79 | 0 | 57.77 |
| DIRECTION | 0 | 107 | 0 | 92 | 0 | 112 | 0 | 80 |
| NUMBER OF VEHICLES | 0 | 107 | 0 | 92 | 0 | 112 | 0 | 80 |
| AVERAGE SPEED | 0 | 59.10 | 0 | 59.39 | 0 | 55.96 | 0 | 54.86 |

TABLE 15. SPEED DATA

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STATION RIALL HIGHWAY Interstate LOCATION See Individual Station
      Rural
NO. OF LANES TYPE OF SURFACE WEATHER
THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)
DATE Oct. - Dec. 1977 DATE July - Sept. 1977
TIME TIME

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LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)

DATE July - Sept. 1977
TIME

THIS CBSE FVATION

DATE_Oct.-Dec. 1977

[illegible]

TABLE 16 SPEED DATA

| STATION | 4LALL | HIGHWAY 4-Lane Rural | LCCATION | See Individual Stations |
|---------|-------|----------------------|----------|-------------------------|
| STATION | 4LALL | HIGHWAY 4-Lane Rural | LCCATION | See Individual Stations |

| | NO. OF LANES | TYPE OF SURFACE | WEATHER |
|----|--------------|-----------------|---------|
| 1 | 2 | ASPHALT | DRY |
| 2 | 2 | CONCRETE | WET |
| 3 | 2 | GRAVEL | DRY |
| 4 | 2 | DIRT | WET |
| 5 | 2 | SAND | DRY |
| 6 | 2 | CLAY | WET |
| 7 | 2 | ICE | DRY |
| 8 | 2 | SNOW | WET |
| 9 | 2 | FLOODING | DRY |
| 10 | 2 | OTHER | WET |

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THIS CERVATION          LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)
DATE Oct. - Dec. 1977  DATE July - Sept. 1977
TIME                    TIME

```

| OBSERVATION | ALL | | | PASSENGER CARS | | | NON-INDIANA | | | TRUCKS | | |
|---------------------|------|-------|-------|----------------|-------|-------|-------------|-------|-------|--------|-------|-------|
| | LAST | ENI | PRES- | LAST | ENI | PRES- | LAST | ENI | PRES- | LAST | ENI | PRES- |
| NUMBER OF VEHICLES | 0 | 992 | | 0 | 847 | | 0 | 145 | | 0 | 280 | |
| AVERAGE SPEED (MPH) | 0 | 58.55 | | 0 | 58.37 | | 0 | 59.63 | | 0 | 57.51 | |
| STANDARD DEVIATION | 0 | 5.304 | | 0 | 5.315 | | 0 | 5.126 | | 0 | 6.229 | |
| 24 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 29 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 34 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 39 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 44 MPH | 0 | 4 | | 0 | 5 | | 0 | 0 | | 0 | 1.4 | |
| 49 MPH | 0 | 4.6 | | 0 | 5.1 | | 0 | 2.1 | | 0 | 2.5 | |
| 54 MPH | 0 | 19.5 | | 0 | 20.7 | | 0 | 12.4 | | 0 | 29.3 | |
| 59 MPH | 0 | 58.4 | | 0 | 59.6 | | 0 | 51.0 | | 0 | 64.3 | |
| 64 MPH | 0 | 88.5 | | 0 | 89.7 | | 0 | 81.4 | | 0 | 88.6 | |
| 69 MPH | 0 | 97.1 | | 0 | 97.0 | | 0 | 97.2 | | 0 | 97.9 | |
| 74 MPH | 0 | 99.4 | | 0 | 99.5 | | 0 | 98.6 | | 0 | 99.3 | |
| 79 MPH | 0 | 99.9 | | 0 | 100.0 | | 0 | 99.3 | | 0 | 99.6 | |
| 84 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | |
| 89 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | |

TABLE 17 SPEED DATA

STATION 2LALL HIGHWAY 2-Lane Rural LOCATION See Individual Stations

| NO. OF LANES | TYPE OF SURFACE | WEATHER |
|--------------|-----------------|---------|
| 1 | ASPHALT | DRY |
| 2 | CONCRETE | WET |
| 3 | GRAVEL | DRY |
| 4 | GRAVEL | WET |
| 5 | GRAVEL | DRY |
| 6 | GRAVEL | WET |
| 7 | GRAVEL | DRY |
| 8 | GRAVEL | WET |
| 9 | GRAVEL | DRY |
| 10 | GRAVEL | WET |
| 11 | GRAVEL | DRY |
| 12 | GRAVEL | WET |
| 13 | GRAVEL | DRY |
| 14 | GRAVEL | WET |
| 15 | GRAVEL | DRY |
| 16 | GRAVEL | WET |
| 17 | GRAVEL | DRY |
| 18 | GRAVEL | WET |
| 19 | GRAVEL | DRY |
| 20 | GRAVEL | WET |
| 21 | GRAVEL | DRY |
| 22 | GRAVEL | WET |
| 23 | GRAVEL | DRY |
| 24 | GRAVEL | WET |
| 25 | GRAVEL | DRY |
| 26 | GRAVEL | WET |
| 27 | GRAVEL | DRY |
| 28 | GRAVEL | WET |
| 29 | GRAVEL | DRY |
| 30 | GRAVEL | WET |
| 31 | GRAVEL | DRY |
| 32 | GRAVEL | WET |
| 33 | GRAVEL | DRY |
| 34 | GRAVEL | WET |
| 35 | GRAVEL | DRY |
| 36 | GRAVEL | WET |
| 37 | GRAVEL | DRY |
| 38 | GRAVEL | WET |
| 39 | GRAVEL | DRY |
| 40 | GRAVEL | WET |
| 41 | GRAVEL | DRY |
| 42 | GRAVEL | WET |
| 43 | GRAVEL | DRY |
| 44 | GRAVEL | WET |
| 45 | GRAVEL | DRY |
| 46 | GRAVEL | WET |
| 47 | GRAVEL | DRY |
| 48 | GRAVEL | WET |
| 49 | GRAVEL | DRY |
| 50 | GRAVEL | WET |
| 51 | GRAVEL | DRY |
| 52 | GRAVEL | WET |
| 53 | GRAVEL | DRY |
| 54 | GRAVEL | WET |
| 55 | GRAVEL | DRY |
| 56 | GRAVEL | WET |
| 57 | GRAVEL | DRY |
| 58 | GRAVEL | WET |
| 59 | GRAVEL | DRY |
| 60 | GRAVEL | WET |
| 61 | GRAVEL | DRY |
| 62 | GRAVEL | WET |
| 63 | GRAVEL | DRY |
| 64 | GRAVEL | WET |
| 65 | GRAVEL | DRY |
| 66 | GRAVEL | WET |
| 67 | GRAVEL | DRY |
| 68 | GRAVEL | WET |
| 69 | GRAVEL | DRY |
| 70 | GRAVEL | WET |
| 71 | GRAVEL | DRY |
| 72 | GRAVEL | WET |
| 73 | GRAVEL | DRY |
| 74 | GRAVEL | WET |
| 75 | GRAVEL | DRY |
| 76 | GRAVEL | WET |
| 77 | GRAVEL | DRY |
| 78 | GRAVEL | WET |
| 79 | GRAVEL | DRY |
| 80 | GRAVEL | WET |
| 81 | GRAVEL | DRY |
| 82 | GRAVEL | WET |
| 83 | GRAVEL | DRY |
| 84 | GRAVEL | WET |
| 85 | GRAVEL | DRY |
| 86 | GRAVEL | WET |
| 87 | GRAVEL | DRY |
| 88 | GRAVEL | WET |
| 89 | GRAVEL | DRY |
| 90 | GRAVEL | WET |
| 91 | GRAVEL | DRY |
| 92 | GRAVEL | WET |
| 93 | GRAVEL | DRY |
| 94 | GRAVEL | WET |
| 95 | GRAVEL | DRY |
| 96 | GRAVEL | WET |
| 97 | GRAVEL | DRY |
| 98 | GRAVEL | WET |
| 99 | GRAVEL | DRY |
| 100 | GRAVEL | WET |

THIS OBSERVATION
DATE Oct. - Dec. 1977
TIME -----

LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)
DATE July - Sept. 1977
TIME -----

| OBSERVATION | ALL | | | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|---------------------|------|-------|-------|----------------|-------|-------|-------------|-------|-------|------|-------|-------|--------|-------|-------|
| | LAST | ENI | PRES- | LAST | ENI | PRES- | LAST | ENI | PRES- | LAST | ENI | PRES- | LAST | ENI | PRES- |
| NUMBER OF VEHICLES | 0 | 969 | | 0 | 905 | | 0 | 64 | | 0 | 781 | | 0 | 360 | |
| AVERAGE SPEED (MPH) | 0 | 57.77 | | 0 | 57.72 | | 0 | 58.44 | | 0 | 55.62 | | 0 | 56.67 | |
| STANDARD DEVIATION | 0 | 6.088 | | 0 | 6.125 | | 0 | 5.549 | | 0 | 6.466 | | 0 | 6.824 | |
| 24 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 29 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 34 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 39 MPH | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | | 0 | 0 | |
| 44 MPH | 0 | 1.1 | | 0 | 1.2 | | 0 | 0 | | 0 | 1.0 | | 0 | 8 | |
| 49 MPH | 0 | 8.0 | | 0 | 8.4 | | 0 | 3.1 | | 0 | 16.1 | | 0 | 12.8 | |
| 54 MPH | 0 | 28.0 | | 0 | 28.3 | | 0 | 23.4 | | 0 | 40.3 | | 0 | 35.0 | |
| 59 MPH | 0 | 65.0 | | 0 | 65.1 | | 0 | 64.1 | | 0 | 73.5 | | 0 | 68.3 | |
| 64 MPH | 0 | 88.1 | | 0 | 88.4 | | 0 | 84.4 | | 0 | 91.9 | | 0 | 90.8 | |
| 69 MPH | 0 | 95.6 | | 0 | 95.8 | | 0 | 92.2 | | 0 | 98.6 | | 0 | 96.9 | |
| 74 MPH | 0 | 99.3 | | 0 | 99.2 | | 0 | 100.0 | | 0 | 99.4 | | 0 | 98.6 | |
| 79 MPH | 0 | 99.8 | | 0 | 99.8 | | 0 | 100.0 | | 0 | 99.6 | | 0 | 99.2 | |
| 84 MPH | 0 | 99.9 | | 0 | 99.9 | | 0 | 100.0 | | 0 | 99.7 | | 0 | 99.4 | |
| 89 MPH | 0 | 100.0 | | 0 | 100.0 | | 0 | 100.0 | | 0 | 99.9 | | 0 | 99.7 | |

TABLE 18 SPEED DATA

STATION U1A11 HIGHWAY Interstate LOCATION See Individual Stations
 NO. OF LANES TYPE CF SURFACE WEATHER
 THIS OBSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO. 102)
 DATE Oct. - Dec. 1977 DATE July - Sept. 1977
 TIME TIME

| OBSERVATION NUMBER OF VEHICLES AVE. SPEED (MPH) STANDARD DEVIATION PERCENT OF VEHICLES TRAVELING AT OR LESS THAN | PASSENGER CARS | | | NON-INDIANA | | | ALL | | | TRUCKS | | |
|---|----------------|-------|------|-------------|-------|------|---------|-------|------|------------|-------|------|
| | INDIANA | | | INDIANA | | | INDIANA | | | <5000 LBS. | | |
| | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES | LAST | ENT | PRES |
| 24 MPH | 0 | 502 | 0 | 0 | 62 | 0 | 0 | 378 | 0 | 0 | 137 | 0 |
| 29 MPH | 0 | 59.68 | 0 | 0 | 58.98 | 0 | 0 | 57.52 | 0 | 0 | 59.09 | 0 |
| 34 MPH | 0 | 5.067 | 0 | 0 | 5.278 | 0 | 0 | 5.140 | 0 | 0 | 5.361 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 MPH | 0 | 1.6 | 0 | 0 | 1.6 | 0 | 0 | 1.6 | 0 | 0 | 1.5 | 0 |
| 59 MPH | 0 | 9.6 | 0 | 0 | 14.5 | 0 | 0 | 25.4 | 0 | 0 | 20.4 | 0 |
| 64 MPH | 0 | 53.6 | 0 | 0 | 56.5 | 0 | 0 | 67.7 | 0 | 0 | 58.4 | 0 |
| 69 MPH | 0 | 85.9 | 0 | 0 | 88.7 | 0 | 0 | 92.9 | 0 | 0 | 86.1 | 0 |
| 74 MPH | 0 | 95.6 | 0 | 0 | 95.2 | 0 | 0 | 98.9 | 0 | 0 | 97.1 | 0 |
| 79 MPH | 0 | 98.6 | 0 | 0 | 98.4 | 0 | 0 | 99.7 | 0 | 0 | 99.3 | 0 |
| 84 MPH | 0 | 99.6 | 0 | 0 | 98.4 | 0 | 0 | 99.7 | 0 | 0 | 99.3 | 0 |
| 89 MPH | 0 | 100.0 | 0 | 0 | 100.0 | 0 | 0 | 100.0 | 0 | 0 | 100.0 | 0 |

TABLE 19 SPEED DATA

STATION ALL HIGHWAY Indiana LOCATION See Individual Stations
 NO. OF LANES TYPE OF SURFACE WEATHER

THIS CENSERVATION LAST PREVIOUS OBSERVATION (SPEED REPORT NO.)
 DATE Oct. - Dec. 1977 DATE July - Sept. 1977
 TIME TIME

| | PASSENGER CARS | | | | TRUCKS | | | |
|---|----------------|---------|-------------|---------|---------|---------|------------|---------|
| | INDIANA | | NON-INDIANA | | ALL | | >5000 LBS. | |
| | PRES- | ENT | PRES- | ENT | PRES- | ENT | PRES- | ENT |
| OBSERVATION | LASI | ENT | LASI | ENT | LASI | ENT | LASI | ENT |
| NUMBER OF VEHICLES | 0 3350 | 0 2621 | 0 729 | 0 2733 | 0 945 | 0 1788 | 0 1788 | 0 1788 |
| AVE. SPEED (MPH) | 0 59.28 | 0 58.84 | 0 60.84 | 0 58.09 | 0 57.87 | 0 58.21 | 0 58.21 | 0 58.21 |
| STANDARD DEVIATION | 0 5.629 | 0 5.667 | 0 5.202 | 0 6.096 | 0 6.372 | 0 5.943 | 0 5.943 | 0 5.943 |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PERCENT OF VEHICLES TRAVELING AT OR LESS THAN | | | | | | | | |
| 24 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 34 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 39 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 59 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 64 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 69 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 74 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 79 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 84 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 89 MPH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE 20
Monitoring of Speed
(Statistical Summary)

☒ Quarterly Report--Calendar Quarter Ending December 31, 1977

or ☐ Annual Report--Year Ending _____

STATE Indiana

| | Miles | Number of Monitor Locations | Number of Vehicles Measured | Duration of Measurement Session (Hours) | Average Speed (MPH) | Median Speed (MPH) | 85th Percentile Speed (MPH) | Percent of Motorists Exceeding | | |
|-----------------------|-------|--|-----------------------------|---|---------------------|--------------------|-----------------------------|--------------------------------|--------|--------|
| | | | | | | | | 55 MPH | 60 MPH | 65 MPH |
| Interstate Urban | 218 | 2 | 880 | 2.0 | 58.8 | 57.9 | 62.9 | 78 | 33 | 8 |
| Interstate Rural | 849 | 4 | 1717 | 8.9 | 61.3 | 60.0 | 66.0 | 90 | 54 | 20 |
| Multi-lane, Divided | 657 | 4 | 1736 | 8.1 | 58.2 | 57.7 | 62.7 | 72 | 32 | 8 |
| Multi-lane, Undivided | | (Included in multi-lane, divided classification) | | | | | | | | |
| 2-Lane, Rural | 8030 | 4 | 1750 | 8.0 | 56.8 | 56.2 | 62.3 | 59 | 26 | 8 |
| State Total | 9754 | 14 | 6083 | 27.0 | 58.7 | 58.2 | 63.7 | 74 | 36 | 11 |

TABLE 21-

SPEED MONITORING STATION SUMMARY

| | | | |
|-----------------------------------|-------------------|-----------------------------|--------------------------------|
| HIGHWAY CATEGORY | INTERSTATE, RURAL | | |
| STATION NUMBER | RI-6 | LOCATION | I-65 7.5 miles north of SR 160 |
| NUMBER OF SESSIONS | 1 | DATES | 11-9-77 |
| | | | VEHICLES MEASURED 423 |
| AVERAGE SPEED (MPH) | 60.2 | STANDARD DEVIATION | 5.0 |
| MEDIAN SPEED (MPH) | 59.4 | 85TH PERCENTILE SPEED (MPH) | 64.9 |
| PERCENTAGE OF VEHICLES EXCEEDING: | | | |
| 55 MPH | 86 | 60 MPH | 46 |
| | | 65 MPH | 15 |

TABLE 22--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER RI-21 LOCATION I-69 1.6 miles south of SR 18
 NUMBER OF SESSIONS 1 DATES 11-21-77 VEHICLES MEASURED 436
 AVERAGE SPEED (MPH) 65.8 STANDARD DEVIATION 5.1
 MEDIAN SPEED (MPH) 59.9 85TH PERCENTILE SPEED (MPH) 65.6
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 88 60 MPH 50 65 MPH 18

TABLE 23

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY ----- INTERSTATE, RURAL -----
 STATION NUMBER RI-22 LOCATION I-69 7.3 miles north of SR 3 interchange
 NUMBER OF SESSIONS 1 DATES 11-22-77 VEHICLES MEASURED 427
 AVERAGE SPEED (MPH) 61.5 STANDARD DEVIATION 5.2
 MEDIAN SPEED (MPH) 60.6 85TH PERCENTILE SPEED (MPH) 66.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 90 60 MPH 55 65 MPH 20

TABLE 24

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY INTERSTATE, RURAL
 STATION NUMBER RI-26 LOCATION I-80 & 90 3.75 miles east of LaGrange &
Elkhart Co. Line at 112 mile post marker
 NUMBER OF SESSIONS 1 DATES 11-16-77 VEHICLES MEASURED 43
 AVERAGE SPEED (MPH) 62.5 STANDARD DEVIATION 4.9
 MEDIAN SPEED (MPH) 61.7 85TH PERCENTILE SPEED (MPH) 67.1
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 94 60 MPH 64 65 MPH 25

TABLE 25

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY ----- MULTI-LANE, DIVIDED (RURAL) -----
 STATION NUMBER 41-17 LOCATION U.S. 52 150 ft. east of county road 475W
 NUMBER OF SESSIONS 1 DATES 11-8-77 VEHICLES MEASURED 431
 AVERAGE SPEED (MPH) 57.1 STANDARD DEVIATION 5.8
 MEDIAN SPEED (MPH) 56.6 85TH PERCENTILE SPEED (MPH) 61.9
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH ----- 62 ----- 28 ----- 65 MPH ----- 7 -----

TABLE 26

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
 STATION NUMBER 41-32 LOCATION U.S. 30 2.9 miles west of Wanatah
city limit sign
 NUMBER OF SESSIONS 1 DATES 11-18-77 VEHICLES MEASURED 439
 AVERAGE SPEED (MPH) 52.1 STANDARD DEVIATION 5.2
 MEDIAN SPEED (MPH) 58.5 85TH PERCENTILE SPEED (MPH) 63.5
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 79 60 MPH 39 65 MPH 10

TABLE 27 -

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY ----- MULTI-LANE, DIVIDED (RURAL) -----
 STATION NUMBER 44-1 LOCATION U.S. 41 2.55 miles south of SR 64
 NUMBER OF SESSIONS 1 DATES 11-19-77 VEHICLES MEASURED 428
 AVERAGE SPEED (MPH) 57.9 STANDARD DEVIATION 5.6
 MEDIAN SPEED (MPH) 57.3 85TH PERCENTILE SPEED (MPH) 62.4
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 12 60 MPH 27 65 MPH 8

TABLE 28

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY MULTI-LANE, DIVIDED (RURAL)
STATION NUMBER 44-23 LOCATION U.S. 31 3.95 miles north of Howard-Miami
County Line
NUMBER OF SESSIONS 1 DATES 11-17-77 VEHICLES MEASURED 438
AVERAGE SPEED (MPH) 58.6 STANDARD DEVIATION 5.1
MEDIAN SPEED (MPH) 58.0 85TH PERCENTILE SPEED (MPH) 62.7
PERCENTAGE OF VEHICLES EXCEEDING:
55 MPH 75 60 MPH 31 65 MPH 8

TABLE 29

SPEED MONITORING STATION SUMMARY

| | | |
|-----------------------------------|----------------|---|
| HIGHWAY CATEGORY | TWO-LANE RURAL | |
| STATION NUMBER | 26-18 | LOCATION U.S. 35 2.5 miles east of I-69 |
| NUMBER OF SESSIONS | 1 | DATES 11-21-77 VEHICLES MEASURED 444 |
| AVERAGE SPEED (MPH) | 57.4 | STANDARD DEVIATION 5.7 |
| MEDIAN SPEED (MPH) | 56.5 | 85TH PERCENTILE SPEED (MPH) 62.6 |
| PERCENTAGE OF VEHICLES EXCEEDING: | | |
| 55 MPH | 64 | 60 MPH 26 65 MPH 7 |

TABLE 30--

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY --- TWO-LANE, RURAL ---
 STATION NUMBER 2L-54 LOCATION U.S. 231 1.1 miles south of SR 234
 NUMBER OF SESSIONS 1 DATES 11-15-77 VEHICLES MEASURED 427
 AVERAGE SPEED (MPH) 57.6 STANDARD DEVIATION 6.5
 MEDIAN SPEED (MPH) 56.9 85TH PERCENTILE SPEED (MPH) 62.6
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 64 60 MPH 30 65 MPH 9

TABLE 31-

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 24-55 LOCATION SR 67, 5 miles south of SR 39 & 67
 NUMBER OF SESSIONS 1 DATES 11-11-77 VEHICLES MEASURED 418
 AVERAGE SPEED (MPH) 58.4 STANDARD DEVIATION 5.8
 MEDIAN SPEED (MPH) 57.5 85TH PERCENTILE SPEED (MPH) 62.9
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 72 60 MPH 33 65 MPH 11

TABLE 32 -

SPEED MONITORING STATION SUMMARY

HIGHWAY CATEGORY TWO-LANE, RURAL
 STATION NUMBER 21-63 LOCATION SR 64 2.75 miles east of Gibson-Pike
County Line
 NUMBER OF SESSIONS 1 DATES 11-10-77 VEHICLES MEASURED 461
 AVERAGE SPEED (MPH) 54.1 STANDARD DEVIATION 6.4
 MEDIAN SPEED (MPH) 53.4 85TH PERCENTILE SPEED (MPH) 60.3
 PERCENTAGE OF VEHICLES EXCEEDING:
 55 MPH 38 60 MPH 16 65 MPH 4

TABLE 33

SPEED MONITORING STATION SUMMARY

| | |
|-----------------------------------|-------------------------------|
| HIGHWAY CATEGORY | INTERSTATE, URBAN |
| STATION NUMBER | UI-6 |
| LOCATION | I-65 Just east of White River |
| NUMBER OF SESSIONS | 1 |
| DATES | 11-14-77 |
| VEHICLES MEASURED | 448 |
| AVERAGE SPEED (MPH) | 52.3 |
| STANDARD DEVIATION | 5.3 |
| MEDIAN SPEED (MPH) | 58.2 |
| 85TH PERCENTILE SPEED (MPH) | 63.4 |
| PERCENTAGE OF VEHICLES EXCEEDING: | |
| 55 MPH | 82 |
| 60 MPH | 36 |
| 65 MPH | 9 |

TABLE 34 -

SPEED MONITORING STATION SUMMARY

| | | | |
|-----------------------------------|-----------------------|-----------------------------|-----------------------------------|
| HIGHWAY CATEGORY | INTERSTATE, URBAN | | |
| STATION NUMBER | 01-5 | LOCATION | I-65 At Township Line Road Bridge |
| NUMBER OF SESSIONS | 1 | DATES | 11-14-77 |
| | VEHICLES MEASURED 432 | | |
| AVERAGE SPEED (MPH) | 58.2 | STANDARD DEVIATION | 5.1 |
| MEDIAN SPEED (MPH) | 57.5 | 85TH PERCENTILE SPEED (MPH) | 62.3 |
| PERCENTAGE OF VEHICLES EXCEEDING: | | | |
| 55 MPH | 74 | 60 MPH | 31 |
| | | 65 MPH | 7 |

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